

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-85
Relating to Certification of New Off-Road Compression-Ignition Engines

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment:

Model Year: 2001

Typical Equipment Usage: Other Industrial Equipment

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement (liters)</u>	<u>Useful Life (hours)</u>	<u>Emission Control Systems and Special Features</u>
1JDXL06.8015	4.5 and 6.8	8000	Direct Diesel Injection Turbocharger

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

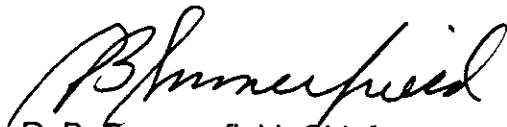
<u>Engine Power Rating (kw)</u>	<u>Emission Standard Category</u>		<u>Exhaust Emissions (g/kw-hr)</u>					<u>Smoke Opacity (%)</u>		
			<u>HC</u>	<u>NO_x</u>	<u>NMHC+NO_x</u>	<u>CO</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
37≤KW<130	Tier 1	Standard	N/A	9.2	N/A	N/A	N/A	20	15	50
		Certification	--	7.6	--	--	--	10	9	25
130≤KW<225	Tier 1	Standard	1.3	9.2	N/A	11.4	0.54	20	15	50
		Certification	0.4	7.6	--	1.5	0.34	10	9	25

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 and 2426).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 6th day of February 2001.

A handwritten signature in black ink, appearing to read "R. B. Summerfield", is written over the printed name.

R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model Summary Form

ED# U-R-4-85

Manufacturer: Deere Power Systems Group of Deere & Company
 Engine category: Nonroad CI
 EPA Engine Family: 1JDXL06.8015
 Mfr Family Name: 350TB
 Process Code: New Submission

ATTACHMENT

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068TF250C	6068T	200@2400	149 96.8@2400	81@2400	587@1500	121.3@1500	61@1500	EM, TC, ^{ppI} ▲
4045TT055	4045T	109@2300	81 80@2300	41@2300	298@1400	93@1400	29@1400	EM, TC
4045TF250	4045T	125@2400	93 89@2400	47@2400	328@1400	101@1400	31@1400	EM, TC
6068TT051	6068T	148@2150	110 73@2150	52@2150	432@1400	85@1400	39@1400	EM, TC
6068TDW55	6068T	157@2200	117 80.1@2200	60@2200	493@1400	100@1400	47@1400	EM, TC
6068TT053	6068T	161@2200	120 80@2200	58@2200	499@1400	101@1400	47@1400	EM, TC
6068TF250B	6068T	185@2400	138 89@2400	71@2400	503@1400	103@1400	19@1400	EM, TC
4045TT052	4045T	93@2200	69 69@2200	34@2200	272@1200	81@1200	22@1200	EM, TC
4045TP051	4045T	93@2200	69 69@2200	34@2200	272@1200	81@1200	22@1200	EM, TC
4045TP053	4045T	109@2300	81 80@2300	41@2300	298@1400	93@1400	29@1400	EM, TC
6068TN053	6068T	185@2400	138 88.1@2400	71@2400	535@1500	106.1@1500	54@1500	EM
6068TN052	6068T	200@2400	149 95.7@2400	79@2400	587@1500	119.4@1500	61@1500	EM, TC
6068TT058	6068T	161@2200	120 80@2200	58@2200	499@1400	101@1400	47@1400	EM, TC
6068TT059	6068T	161@2200	120 80@2200	58@2200	499@1400	101@1400	47@1400	EM, TC
6068TF250D	6068T	200@2400	149 95.7@2400	79@2400	587@1500	119.4@1500	61@1500	EM, TC
6068TTJ50	6068T	161@2200	120 80@2200	58@2200	499@1400	101@1400	47@1400	EM, TC

EPA cert NO: JDX-NRB-01-11

Engine Model Summary Form

Manufacturer: Deere Power Systems Group of Deere & Company

Engine category: Nonroad CI

EPA Engine Family: 1JDXL06.8015

Mfr Family Name: 350TB

Process Code: Running Change

ED#U-R-4-85

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068TDW57	6068T	170@2200	84@2200	62@2200	538@1400	109@1400	152@1400	EM TC